IN THE CLAIMS

These claims will replace all prior versions of claims in the application:

1. (Previously Presented) Processing apparatus adapted to implement an artificial intelligence application, which application requires use of training sets having positive and negative examples, the apparatus comprising:

at least one memory adapted to store data and/or instructions;

at least one processor adapted to execute operations, using the at least one memory, the operations comprising:

recognizing and maintaining a set of positive examples for training; and
upon completion of recognition of the set of positive examples, selecting a set of negative
examples for training responsive to the set of positive examples, the set of negative examples having
a same number of members as the set of positive examples.

- 2.(Canceled)
- 3.(Original) The apparatus of claim 1, wherein the artificial intelligence application is a content recommender.
- 4.(Original) The apparatus of claim 3, wherein the content is television shows.

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5.(Currently amended) The apparatus of claim 1, wherein Processing apparatus adapted to implement an artificial intelligence application, which application requires use of training sets having positive and negative examples, the apparatus comprising:

at least one memory adapted to store data and/or instructions;

at least one processor adapted to execute operations, using the at least one memory, the operations comprising:

recognizing and maintaining a set of positive examples for training; and
upon completion of recognition of the set of positive examples, selecting a set of negative examples
for training responsive to the set of positive examples, wherein

the positive and negative examples are describable in accordance with at least one feature, the feature having a plurality of possible values within a feature space;

the set of positive examples includes at least one subset, each subset including a respective plurality of members sharing a same respective value of a given feature in the feature space, the given feature being one that has been determined in advance to be a dominant feature in the feature space; and

the set of negative examples includes at least one respective subset corresponding to the at least one subset of the set of positive examples, the members of each respective subset of negative examples being selected to share the same respective value of the given feature with the members of the subset of the set of positive examples that corresponds with the respective subset of negative examples.

6.(Original) The apparatus of claim 5, wherein the set of negative examples includes at least one respective second subset of negative examples, the members of the respective second subset of

negative examples being selected to have a value of the given feature that lies within a predetermined range of the same value, but excluding the same respective value.

7.(Original) The apparatus of claim 6, wherein no negative example appears twice in the set of negative examples.

8.(Original) The apparatus of claim 5, wherein the given feature is time of day.

9.(Original) The apparatus of claim 1, wherein the operations include

training the artificial intelligence application responsive to the positive and negative examples; and

executing the artificial intelligence application to yield a processing result in a useful application.

10.(Previously Presented) Apparatus adapted to implement an artificial intelligence application, which application requires use of training sets having positive and negative examples, the positive and negative examples being describable in accordance with at least one feature, the feature having a plurality of possible values within a feature space, the apparatus comprising:

at least one memory adapted to store data and/or instructions;

at least one processor adapted to execute operations, using the at least one memory, the operations comprising:

recognizing and maintaining a set of positive examples for training, the set of positive examples including at least one subset, each subset including a respective plurality of members sharing a same respective value of a given feature in the feature space, the given feature being one

that has been determined in advance to be a dominant feature in the feature space; and

selecting a set of negative examples for training, the set of negative examples including at least one respective subset corresponding to the at least one subset of the set of positive examples, the members of each respective subset of negative examples being selected to share the same respective value of the given feature with the members of the subset of the set of positive examples that corresponds with the respective subset of negative examples.

- 11.(Original) The apparatus of claim 10, wherein the artificial intelligence application is a content recommender.
- 12. (Original) The apparatus of claim 11, wherein the content is television shows.
- 13.(Original) The apparatus of claim 10, wherein the set of negative examples includes at least one respective second subset of negative examples, the members of the respective second subset of negative examples being selected to have a value of the given feature that lies within a predetermined range of the same respective value, but excluding the same respective value.
- 14.(Original) The apparatus of claim 10, wherein no negative example appears twice in the set of negative examples.
- 15.(Original) The apparatus of claim 13, wherein the given feature is time of day.
- 16.(Previously Presented) Apparatus adapted to implement an artificial intelligence application,

which application requires use of training sets having positive and negative examples, the positive and negative examples being describable in accordance with at least one feature, the feature having a plurality of possible values within a feature space, the apparatus comprising:

at least one memory adapted to store data and/or instructions;

at least one processor adapted to execute operations, using the at least one memory, the operations comprising:

recognizing and maintaining a set of positive examples for training, the set of positive examples including at least one subset, each subset including a plurality of members sharing a same respective value of a given feature in the feature space, the given feature being one that has been determined in advance to be a dominant feature in the feature space; and

selecting a set of negative examples for training, the set of negative examples includes at least one respective subset of negative examples, the members of the respective subset of negative examples being selected to have a value of the given feature that lies within a predetermined range of the same respective value, but not including the same respective value.

17.(Original) The apparatus of claim 16, wherein the artificial intelligence application is a content recommender.

18.(Original) The apparatus of claim 17, wherein the content is television shows.

19.(Original) The apparatus of claim 16, wherein no negative example appears twice in the set of negative examples.

20.(Original) The apparatus of claim 16, wherein the given feature is time of day.

21.(Canceled)

22.(Canceled)

23.(Canceled)

24.(Previously Presented) Apparatus adapted to implement an artificial intelligence application, which application requires use of training sets having positive and negative examples, the positive and negative examples being describable in accordance with at least one feature, the feature having a plurality of possible values within a feature space, the apparatus comprising:

at least one memory adapted to store data and/or instructions;

at least one processor adapted to execute operations, using the at least one memory, the operations comprising:

recognizing and maintaining a set of positive examples for training, the set of positive examples including at least one subset, each subset including a plurality of members sharing a same respective value of a given feature in the feature space, the given feature being one that has been determined in advance to be a dominant feature in the feature space; and

selecting a set of negative examples for training, the set of negative examples including at least one respective subset of negative examples, the members of the respective subset of negative examples being selected to have a value of the given feature that is approximately adjacent to same respective value.

25.(Previously Presented) The apparatus of claim 24, wherein the given feature is time of day, and adjacent means either within an hour before or within an hour after.

26.(Previously Presented) The apparatus of claim 24, wherein each respective subset of negative examples corresponds with a respective one of the at least one subset of positive examples, so that its respective value of the given feature is adjacent to the same respective value of the corresponding subset.

27.(Currently Amended) A method for selecting negative examples for use in an artificial intelligence application, the method comprising executing operations on at least one data processing device, the operations comprising:

selecting a set of positive examples that satisfy at least one desired external criterion;
upon completion of the selecting of the positive examples and responsive thereto, selecting a
set of negative examples; and

upon completion of selecting the positive examples, determining a particular value of a given feature in feature space, which particular value characterizes a significant subset of the positive examples, the selecting of the set of negative examples being such that a significant subset of the negative examples has a selected value responsive to the particular value of the given feature in feature space.

28.(Previously Presented) A method of training an artificial intelligence application, the method comprising executing operations in at least one data processing device, the operations comprising: selecting negative examples in accordance with the method of claim 27; and

training the artificial intelligence application using the negative examples.

29.(Canceled)

- 30.(Currently Amended) The method of claim 29 27, wherein the selected value is the same as the particular value.
- 31.(Currently Amended) The method of claim 29_27, wherein the selected value lies in a selected range around the particular value in feature space, but is not the same as the particular value.
- 32.(Currently Amended) A method of training an artificial intelligence application, the method comprising executing operations in at least one data processing device, the operations comprising: selecting negative examples in accordance with the method of claim 29.27; and training the artificial intelligence application using the negative examples.
- 33.(Currently Amended) The method of claim 29_27, wherein the artificial intelligence application recommends content.
- 34. (Currently Amended) A medium readable by at least one data processing device and embodying code for causing the data processing device to execute operations, the operations comprising: selecting a set of positive examples that satisfy at least one desired external criterion; and upon completion of the selecting of the positive examples and responsive thereto, selecting a

set of negative examples; and

upon completion of selecting the positive examples, determining a particular value of a given feature in feature space, which particular value characterizes a significant subset of the positive examples, the selecting of the set of negative examples being such that a significant subset of the negative examples has a selected value responsive to the particular value of the given feature in feature space.

35.(Canceled)

36.(Currently Amended) The method of claim 35 34, wherein the selected value is the same as the particular value.

37. (Currently Amended) The method of claim 35 34, wherein the selected value lies in a selected range around the particular value in feature space, but is not the same as the particular value.

38. (Currently Amended) The medium of claim 35 34, wherein the operations further comprise training an artificial intelligence application using the positive and negative examples.

39.(Previously Presented) The medium of claim 38, wherein the operations further comprise running the artificial intelligence application to give a solution to a real external problem.

40. (Previously Presented) The medium of claim 39, wherein the solution is a content recommendation.